§ 60.5405

the operation and maintenance of the alternative means.

- (b) Any notice under paragraph (a) of this section must be published only after notice and an opportunity for a public hearing.
- (c) The Administrator will consider applications under this section from either owners or operators of affected facilities, or manufacturers of control equipment.
- (d) The Administrator will treat applications under this section according to the following criteria, except in cases where the Administrator concludes that other criteria are appropriate:
- (1) The applicant must collect, verify and submit test data, covering a period of at least 12 months, necessary to support the finding in paragraph (a) of this section.
- (2) If the applicant is an owner or operator of an affected facility, the applicant must commit in writing to operate and maintain the alternative means so as to achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved under the design, equipment, work practice or operational standard.

§ 60.5405 What standards apply to sweetening units at onshore natural gas processing plants?

(a) During the initial performance test required by §60.8(b), you must

achieve at a minimum, an SO_2 emission reduction efficiency (Z_i) to be determined from Table 1 of this subpart based on the sulfur feed rate (X) and the sulfur content of the acid gas (Y) of the affected facility.

(b) After demonstrating compliance with the provisions of paragraph (a) of this section, you must achieve at a minimum, an SO_2 emission reduction efficiency (Z_c) to be determined from Table 2 of this subpart based on the sulfur feed rate (X) and the sulfur content of the acid gas (Y) of the affected facility.

§ 60.5406 What test methods and procedures must I use for my sweetening units affected facilities at onshore natural gas processing plants?

- (a) In conducting the performance tests required in §60.8, you must use the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in paragraph §60.8(b).
- (b) During a performance test required by $\S60.8$, you must determine the minimum required reduction efficiencies (Z) of SO_2 emissions as required in $\S60.5405(a)$ and (b) as follows:
- (1) The average sulfur feed rate (X) must be computed as follows:

$X = KQ_{\sigma}Y$

Where:

X = average sulfur feed rate, Mg/D (LT/D).

- Q_a = average volumetric flow rate of acid gas from sweetening unit, dscm/day (dscf/ day).
- $Y = average \ H_2S$ concentration in acid gas feed from sweetening unit, percent by volume, expressed as a decimal.
- K = (32 kg S/kg-mole)/((24.04 dscm/kg-mole)(1000 kg S/Mg)).
- = 1.331×10^{-3} Mg/dscm, for metric units.
- = (32 lb S/lb-mole)/((385.36 dscf/lb-mole)(2240 lb S/long ton)).
- = 3.707×10^{-5} long ton/dscf, for English units.
- (2) You must use the continuous readings from the process flowmeter to determine the average volumetric flow rate (Q_a) in dscm/day (dscf/day) of the

acid gas from the sweetening unit for each run.

(3) You must use the Tutwiler procedure in $\S 60.5408$ or a chromatographic procedure following ASTM E260–96 (incorporated by reference as specified in $\S 60.17$) to determine the H₂S concentration in the acid gas feed from the sweetening unit (Y). At least one sample per hour (at equally spaced intervals) must be taken during each 4-hour run. The arithmetic mean of all samples must be the average H₂S concentration (Y) on a dry basis for the run. By multiplying the result from the Tutwiler procedure by 1.62×10^{-3} ,